

WHAT IS CLAIMED IS:

1. An emitting device comprising:

a body having a plurality sets of buttons (12) and a reset button (13), the buttons (12) and the reset button (13) connected with an MCU (14) which is
5 connected to a power supply system (15), a generator (16), a receiver (17) and warning lamps (18) and (19);

steps for encoding and emitting of the emitting device (10) comprises:

reset (21): the reset button (13) being pressed;

initial setting (210): a system establishing an initial value and the exterior
10 power being shut down when the values becomes their original values;

reading the operation of the buttons (22): if no button is pressed (220) then go to the previous step;

reading the value of the first button (221): pressing the first button (120) and reading the stored value in the first button (120);

15 reading the value of the second button (222): pressing the second button (121) and reading the stored value in the second button (121);

reading the value of the third button (223): pressing the third button (122) and reading the stored value in the third button (122);

reading the value of the fourth button (224): pressing the fourth button
20 (123) and reading the stored value in the fourth button (123);

the system proceeding the following steps after the four buttons are pressed:

sending (23): cooperating with the exterior power supply and sending a mixture of the read value of the buttons in a form of 32 bit code and 4 bit status value;

5 sending the codes per-set times (24): counting the times of sending, if the times reach the desired value, if no sending is completed then go to the previous step, if the sending is completed then go to the next step;

detecting change of the values of the buttons (25): detecting the values of the buttons, if no change is detected then go to read the previous step, if a change is detected then go to the next step;

10 checking the button is pressed or not (26): checking the button is pressed or not, if no, terminate the job (27), if yes, go to time storage (28) to store time;

when encoding, using different button to set different functions, comprising:

15 encoding process (30): pressing at least one set of the first buttons simultaneously to re-set different codes for the buttons;

learning mold (40): pressing at least one set of buttons simultaneously to learn and confirm the codes;

quick encoding process (50): pressing the first button (120) and the second button (121) simultaneously to proceed quick encode.

20 2. An emitting device comprising:

a body having a plurality sets of buttons (12) and a rest button (13), the buttons (12) and the reset button (13) connected with an MCU (14) which is

connected to a power supply system (15), a generator (16), a receiver (17) and warning lamps (18) and (19);

steps for encoding and emitting of the emitting device (10) comprises:

reset (21): the reset button (13) being pressed;

5 initial setting (210): a system establishing an initial value and the exterior power being shut down when the values becomes their original values;

reading the operation of the buttons (22): if no button is pressed (220) then go to the previous step;

reading the value of the first button (221): pressing the first button (120)

10 and reading the stored value in the first button (120);

reading the value of the second button (222): pressing the second button (121) and reading the stored value in the second button (121);

reading the value of the third button (223): pressing the third button (122) and reading the stored value in the third button (122);

15 reading the value of the fourth button (224): pressing the fourth button (123) and reading the stored value in the fourth button (123);

the system proceeding the following steps after the four buttons are pressed:

sending (23): cooperating with the exterior power supply and sending a

20 mixture of the read value of the buttons in a form of 32 bit code and 4 bit status value;

sending the codes per-set times (24): counting the times of sending, if the times reach the desired value, if no sending is completed then go to the previous step, if the sending is completed then go to the next step;

5 detecting change of the values of the buttons (25): detecting the values of the buttons, if no change is detected then go to read the previous step, if a change is detected then go to the next step;

checking the button is pressed or not (26): checking the button is pressed or not, if no, terminate the job (27), if yes, go to time storage (28) to store time;

10 when encoding, using different button to set different functions, comprising:

encoding process (30): pressing the first button (120), the second button (121) and the third button (122) simultaneously to re-set different codes for the buttons;

15 learning mold (40): pressing the first button (120) and the third button (122) simultaneously to learn and confirm the codes;

quick encoding process (50): pressing the first button (120) and the second button (121) simultaneously to proceed quick encode.

3. The device as claimed in claim 1, wherein the processes for encoding (30) comprises:

20 activation of exterior power supply (30): activating the exterior power supply to proceed the encoding processes;

checking the change of the buttons (32): if no change is detected, checking whether it reaches the pre-set period of time (33), if it reaches the pre-set period of

time such as 30 seconds, warning lamps (18) and (19) illuminate all the time, go to the previous step, if it does not reach the pre-set period of time, the warning lamp (35) flashes and the two warning lamps (18) and (19) flash and go to the previous step; if the value of the button is changed, checking whether it reaches the pre-set
5 period of time such as (30) seconds, if no, then proceed time storage (37), if yes, then proceed encoding (38); the encoding (38) being generated by mixing the values of buttons, the value of time and value of RTCC to generate a 4 bit random code which is stored in a button corresponding thereto, the status of the value being stored in each value of button.

10 4. The device as claimed in claim 1, wherein the quick encoding process (50) comprises:

checking any change of the values of the buttons (500), if the first and the second buttons (51) are pressed simultaneously, the first and the second buttons (120), (121) are in ON status, then go to the previous step; if the first, the second and the
15 third buttons (52) are pressed simultaneously, and the three buttons (120), (121), (122) are ON, the time counter (53) is added by 1 (one) and goes to the previous step; if the situations are different from the situations mentioned above, checking whether the time reaches the pre-set period of time (54), if yes, then checking whether reaches the pre-set value of the counter (55), the pre-set value is five, if the
20 accumulation of the value reaches to five, then go to the process of encoding (38) to proceed quick encoding and storing; if neither of the time and the value of the counter is reached, proceed the process of time storage (56); if the change of the value of buttons (51) is confirmed to be negative, then go to check whether the time

reaches the pre-set time (57), if yes, the warning lamp off, if no, the warning lamp flashing (59), and go to the previous step.

5. The device as claimed in claim 1, wherein the learning mold (40) comprising:

5 activation of exterior power supply (41): activating the exterior power supply to proceed encoding processes;

 checking the change of the buttons (42): if no change is detected, checking whether it reaches the pre-set period of time (43), if no, go to the previous step, if yes, it reaches the pre-set period of time of (30) seconds, checking whether the time
10 counter is zero (430), if no, proceed time storage (44), if it is zero, checking whether it reaches pre-set period of time which is about 10 seconds, if no, checking whether the button is pressed (432), if no, go to the previous step, if yes and the three buttons (120), (121), (122) or the first and the third buttons (120), (122) are pressed simultaneously, go to the time storage (44), if the button is other than the three
15 buttons (120), (121), (122), then proceed storage of the read encoding by storing the codes and status read by legs into corresponding buttons, if the buttons are pressed other than the three buttons being pressed simultaneously, then check the time is within two seconds, if no, then go to the previous step by adding 1 (one) (450) to the time counter, if yes, checking the value of the time counter reaches the pre-set value
20 (46), if no, then go to the time storage (44), if yes, then check whether it reaches the pre-set period of time (47), if yes, then proceed the time storage (44), if no, check whether a button is pressed (48), if no, go to the previous step, if yes, and the three buttons (120), (121), (122) are pressed simultaneously or the first and the third

button (120), (122) are pressed simultaneously, then go to the status of time storage (44), if any other button is pressed, then proceed the storage of read code (49) by storing the code and the status read by legs into the corresponding buttons.

5 6. The device as claimed in claim 1, wherein steps for the storage of time (37), (44) and (56) comprises a main step to read and store (60): reading the sum of value of the period of time and the value of the interior counting, and storing the sum into the value of time and then terminating the job (61).